STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

97-032

INSTRUCTIONS

- 1. The preparing activity must complete blocks 1,2, 3, and 8. In block 1, both the document number and revision letter should be given.
- 2. The submitter of this form must complete blocks 4, 5, 6, and 7.
- 3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

waive any portion of the referenced document(s) of to amend contractual requirements.						
	1. DOCUMENT NUMBER	2. DOCUMENT DATE (YYMMDD)				
I RECOMMEND A CHANGE:		970207				

3. DOCUMENT TITLE

Tag Registry

4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)

Reserve CMPLXA for data relating to Complex SAR imagery. See attached.

5. REASON FOR RECOMMENDATION

6. SUBMITTER

The capability to output Complex Imagery in NITF format from airborne SAR sensors is being developed. The attached page is a prototype for an extension providing data required to support this effort, but may change as more experience is gained. Intent is to transition to a Controlled Extension after implementation and testing.

C. COBIMITIEN							
a. NAME (Last, First, Middle Initial) Muchnij, Joseph	b. ORGANIZATION SAIC						
c. ADDRESS (Include Zip Code) 4031 Col. Glenn Highway Dayton, OH 45431-1673	d. TELEPHONE (Include Area Code) (1) Commercial (937) 431-4392 (2) AUTOVON (If applicable) 7. DATE SUBMITTED (YYMMDD) (7) 970925						
8. PREPARING ACTIVITY National Imagery and Mapping Agency							
a. NAME Danny Rajan	b. TELEPHONE (Include Area Code) (1) Commercial (301) 227-3696 (2) AUTOVON						
c. ADDRESS (Include Zip Code) SESR 4600 Sangamore Road Bethesda, MD 20816-5003	IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 AUTOVON 289-2340						

(TYPE "R" = Required, "C" = Conditional, "<> = null data allowed)

NAME SIZE VALUE RANGE UNITS TYPE

FIELD	NAME	SIZE	VALUE RANGE	UNITS	TYPE
CETAG	Unique Extension Identifier	6	CMPLXA	n/a	R
CEL	Length of Entire Tagged Record	5	00014	Bytes	R
	The following fields d	efine CM	<i>IPLXA</i>		
CMPLX_DOMAIN	Complex Domaindefines whether	2	IQ,MP, M,P		R
	the two components form a				
	rectengular (IQ), or a polar (MP)				
	coordinate system, and which				
	components are present in this				
	image. Operational and efficiency				
	considerations may dictate that the				
	magnitude and phase components				
	be contained in separate files, with				
	M or P defining the content of this				
	image.				
CMPLX_DATA_FMT	Complex Data Formatindicates the	1	I,F		R
	format of each component value				
	comprising a complex pixel:				
	I=Integer				
	F=Floating Point				
CMPLX_SCALE	Type of Scalingapplied to pixel	4	LINM, LINP, LLM,		R
	component values:		LLP, LOGM, LOGP		
	LINM = Linear Magnitude				
	LINP = Linear Power				
	LLM = Lin/Log Magnitude				
	LLP = Lin/Log Power				
	LOGM = Log Magnitude				
CMDLV WEIGHT	LOGP = Log Power	3	T25 CV A		∠D s
CMPLX_WEIGHT	Type of Weightingapplied to data: T35 = Tailor 35db	3	T35,SVA,		<r></r>
			spaces		
	SVA = Spatially Varient Apodization				
	spaces = Unweighted				
When the Complex Dec	main field contains IQ, both CMPLX	CIZE 1	AND CMDI V CIZE 2	chall conta	in identi
	point data, and either 08 or 16 for inte			z siiaii coiita	iiii ideiiti
	main field contains MP, CMPLX_SIZ			noint data	or OS fo
	LX_SIZE_2 shall contain 32 for floati				
	main field contains M, CMPLX_SIZI				
_	LX SIZE 2 shall contain 00	1 SHall	contain 52 for moating	pomi uaia, i	01 00 101
mozor uata, anu CIVII L	22 DIZE Z SHAH CUHAHI UU				

CMPLX_SIZE_1	Size of 1st (or only) pixel	2	08,16, or 32	bits	R
	component in bits; the In-phase or				
	Magnitude component when the				
	Complex Domain contains IQ, MP	,			
	or M; the Phase component when				
	the Complex Domain contains P.				
CMPLX_SIZE_2	Size of 2nd pixel component in bits	s 2	00,08, 10, 12, 16, or	bits	<r></r>
	when the Complex Domain		32		
	indicates IQ or MP. The 2nd				
	component is the Quadrature or				
	Phase component. Shall be 00				